

TRISPHOSGENE (BIS (TRICHLOROMETHYL)CARBONATE)



CAS Number: 79-06-1

Other Names : Triphosgene, Bis(trichloromethyl) carbonate, ditrichloromethyl carbonate

Formula: $C_3Cl_6O_3$

PRODUCT INTRODUCTION

Triphosgene (bis(trichloromethyl) carbonate (BTC)), is a chemical compound that is used as a safer substitute for phosgene, because, at room temperature, it is a solid crystal, as opposed to phosgene, which is a gas. Triphosgene crystals decompose above 200 °C.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Crystals
Content	99.46 %
Drying Weight Loss	0.41 %
Acidity	0.07 %

APPLICATIONS

- Triphosgene is used as a carbonylating agent for aza-peptide synthesis. It reacts with several alpha-amino acids to give the corresponding N-carboxyanhydrides.
 - It is involved in the preparation of the esterification coupling reagent, di-2-thienyl carbonate from 2(5H)-thiophenone.
 - Further, it is used as a reagent in organic synthesis and converts an amino group into isocyanate.
 - In addition to this, it is employed in the preparation of 2-chloronicotinaldehydes through cyclization of the corresponding enamides.
 - It is considered as a useful substitute for phosgene.
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PACKAGING OPTIONS

Drums

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